

Bibliographic Information

Polypropylene laminate films. Kondo, Kunio; Niboshi, Tatsuhiko. (Gunze Ltd., Japan). Jpn. Kokai Tokkyo Koho (1979), 4 pp. CODEN: JKXXAF JP 54060370 19790515 Showa. Patent written in Japanese. Application: JP 77-127075 19771022. CAN 91:141796 AN 1979:541796 CAPLUS

Patent Family Information

| Patent No. | Kind | Date | Application No. | Date |
|-------------|------|----------|-----------------|----------|
| JP 54060370 | A2 | 19790515 | JP 1977-127075 | 19771022 |
| JP 61032139 | B4 | 19860724 | | |

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| <u>Priority Application</u> | | |
| JP 1977-127075 | A | 19771022 |

A laminate of polyolefin and maleated polyolefin-contg. polyolefin is stretched 200-1200% in the machine direction, laminated with a molten film of > 90% sapon. 25-60:40-75 (molar) ethylene-vinyl acetate copolymer (I), and stretched 500-1500% across the machine direction to give a laminate film having reduced curling and good stiffness. Thus, a 1060- μ cryst. polypropylene (II) [9003-07-0] film was laminated with a 10- μ molten film of 5:95 blend of 3.5:96.5 maleic anhydride-propylene graft copolymer (III) [25722-45-6] and II, stretched 500% in the machine direction at 130°, laminated on the III-contg. layer with a 30- μ molten film of 98% sapon. 40:60 (molar) I, and stretched 1000% across the machine direction at 160° to give a 25- μ film contg. 0.2- μ III blend layer having curling 0.7%, Young's modulus 2.8×10^4 and 4.2×10^4 kg/cm² in and across the machine direction, resp. haze 1.3%, and heat seal strength (sealed at 130°) 420 g/cm.

Patent Classifications

IPC: B29D007-24.

Indexing -- Section 37-2 (Plastics Fabrication and Uses)

Adhesives

(maleated polypropylene, for lamination of polypropylene with ethylene-vinyl alc. copolymers)

25722-45-6

Role: USES (Uses)

(graft, blends with polypropylene, adhesives for polypropylene laminates with ethylene-vinyl alc. copolymers)

24937-78-8D, sapon.

Role: USES (Uses)

(laminates with polypropylene, adhesive layers for)

9003-07-0



Role: USES (Uses)

(laminates, with ethylene-vinyl alc. copolymers, adhesive layers for)

Supplementary Terms

polypropylene laminate film; maleated polypropylene adhesive layer; ethylene vinyl alc copolymer